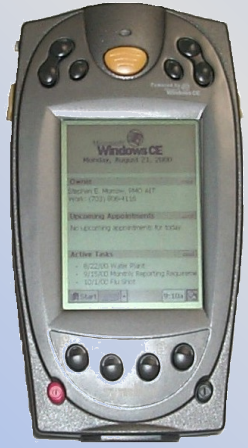
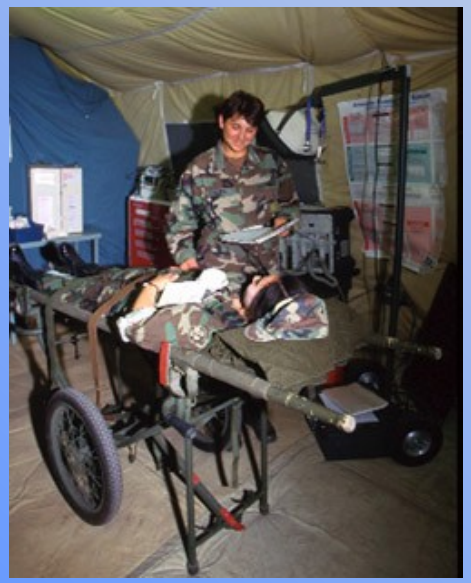
PEO EIS

PEO Enterprise Information Systems



AFCEA - Belvoir
PEO EIS Industry Day



MAJ Joseph Jefferson

Project Officer

Tactical Logistics Data Digitization

Overview

- Mission
- Logistics Transformation
- Essential Components
- Materiel Concept
- TLDD - The Big Picture
- Proposed Project Schedule
- In the Near Future

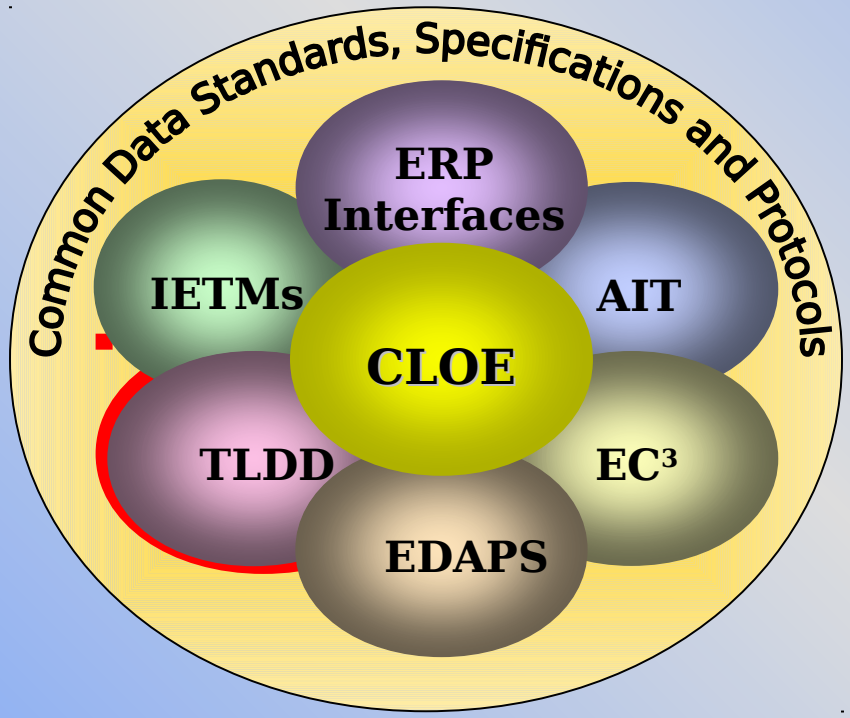
TLDD Mission

Provide Army equipment operators rapid digital access to technical data on the Battlefield, at the motor pool, at the school house. Reduce operator ordering errors, allow the right materiel to be delivered. Provide Integrated Parts Selection (IPS) capa

TLDD and Logistics Transformation

Common Logistics Operating Environment

- Synchronized application of selected technologies on all platforms in the interim force to automatically transmit timely logistics data.
- Accelerate transition to Objective Force.



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Essential Components

- Software
  - Electronic Technical Manual Interface (ETM-I)
  - Digital Log Book (DLB)
  - Digital Preventive Maintenance Checks & Services (DPMCS)
- Hardware
  - Personal Digital Assistant (PDA)
  - Maintenance Support Device (MSD)
  - Soldier's Portable On-system Repair Tool (SPORT)
  - Commercial laptop
- Communications
  - CAISI
  - COTS Wireless Solutions (Cisco, etc.)
  - Executable solution without added communications
    - PDA to cradle & Floppy or Compact Disc from ETMI to Legacy Logistics Systems (ULLS-G, SAMS)

Electronic Technical Manual Interface (ETM-I)

ETM-I provides a software interface between the Unit Level Logistics System – Ground (ULLS-G), Standard Army Maintenance System (SAMS), Electronic Technical Manuals (ETMs) and Interactive ETMs (IETMs).

- **Enables Army mechanics to input maintenance faults and identify required repair parts from the ETM, as well as automated transmission of parts requests and maintenance information to ULLS-G, SAMS-1, or GCSS-A for processing.**

- **Reduces clerical errors by digitally ensuring data integrity and decreases fault entry time**

- **Can be hosted on the Maintenance Support Device (MSD), Soldier's Portable On-system Repair Tool (SPORT), or commercial off-the-shelf (COTS) laptop computers.**

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Digital Log Book (DLB)

The Digital Log Book (DLB) provides an efficient capability to electronically dispatch equipment at the platoon supervisor level using a hand-held Personal Digital Assistant (PDA). DLB can also display the latest Army Oil Analysis Program (AOAP) information.

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Digital Preventive Maintenance Checks and Services (DPMCS)

DPMCS automates the maintenance checks and services process performed by operators. PDAs are used to record PMCS information, faults, and repair parts requirements, and transfer the data through the ETM-I to ULLS-G for processing.

- **Automation of the preventive maintenance checks and services process provides efficiencies and resource savings by improving data accuracy and timeliness**
- **Reduces clerical input errors, and increases situational awareness of equipment health and readiness**
- **Use of PDAs enables the soldier to review the PMCS table and update the information contained in the DA Form 5988-E simultaneously**

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TALLA-COM

Software Release 1

- ETM-I/ULLS-G
  - Create a “Master Merge” program to increase processing efficiency
  - Enhance parts approval process for all parts under all situations
  - Provide capability to select & approve multiple faults/parts on one screen

- ETM-I/SAMS-1
  - Provide ad hoc Work Order Search capability
  - Provide open/close evacuation work orders remotely
  - Create MST acceptance status process interface to ULLS-G for new work orders

Software Release 2

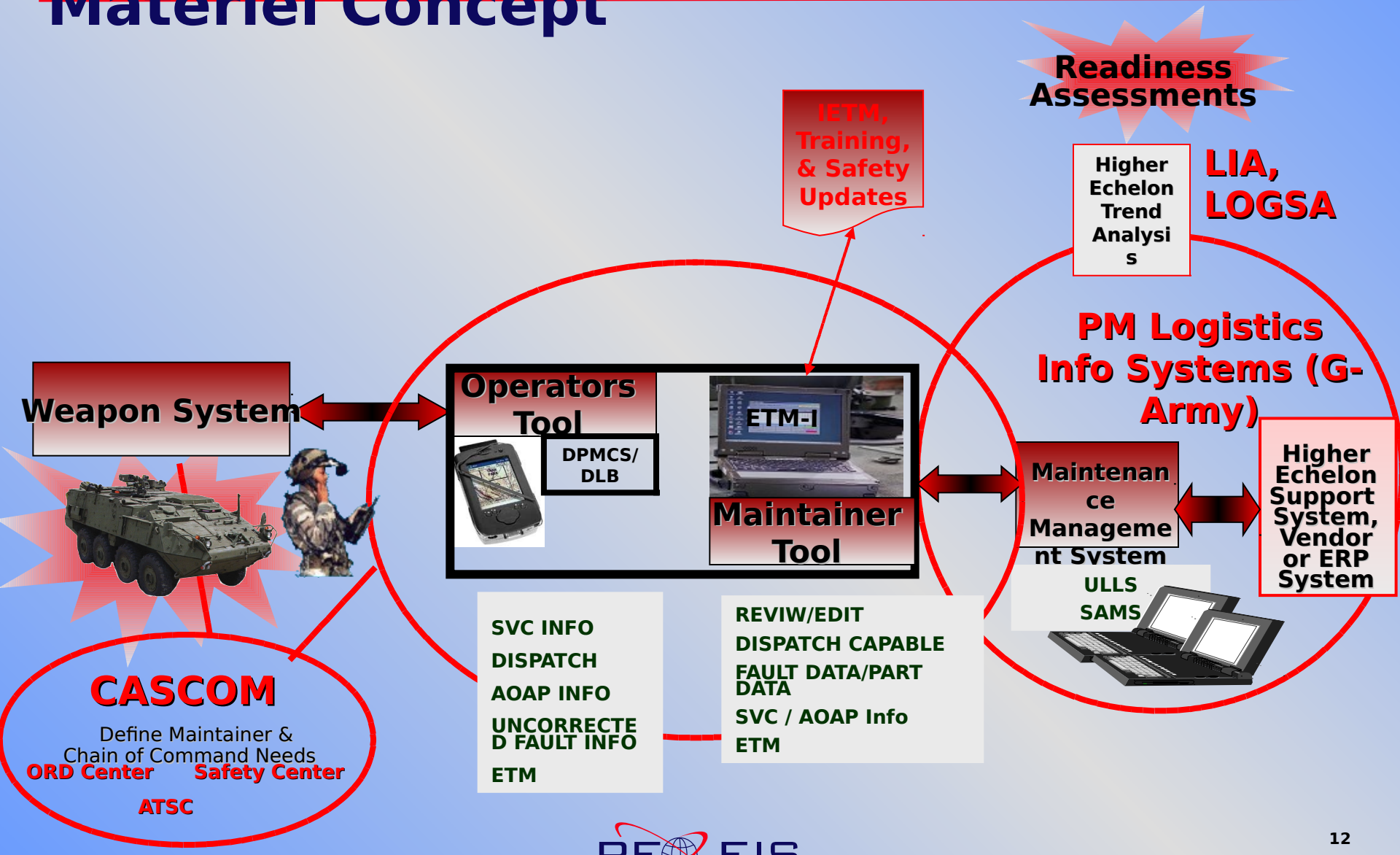
- ETM-I/ULLS-G
  - Provide Oil Analysis Program download capability to Digital Log Book from ULLS-G
  - Modify ETM-I to support dispatching to platoon supervisor level
- ETM-I/SAMS-1
  - Provide data field input editing & help capability based on Regulatory guidance to ensure data integrity
  - Provide capability to centrally manage parameter files for network clients while ensuring the user's ability to work in standalone mode
- Digital Log Book (DLB)
  - Enable DLB as the official dispatch record at platoon supervisor level
  - Display entire operator manual, lube order, & Oil Analysis Program info

Software Release 3

- ETM-I/ULLS-G
  - Update ETM-I/ULLS-G interface to incorporate ULLS-G software change package (SCP) 9
  - Modify system to automatically identify and open a TM when mechanic opens a work assignment

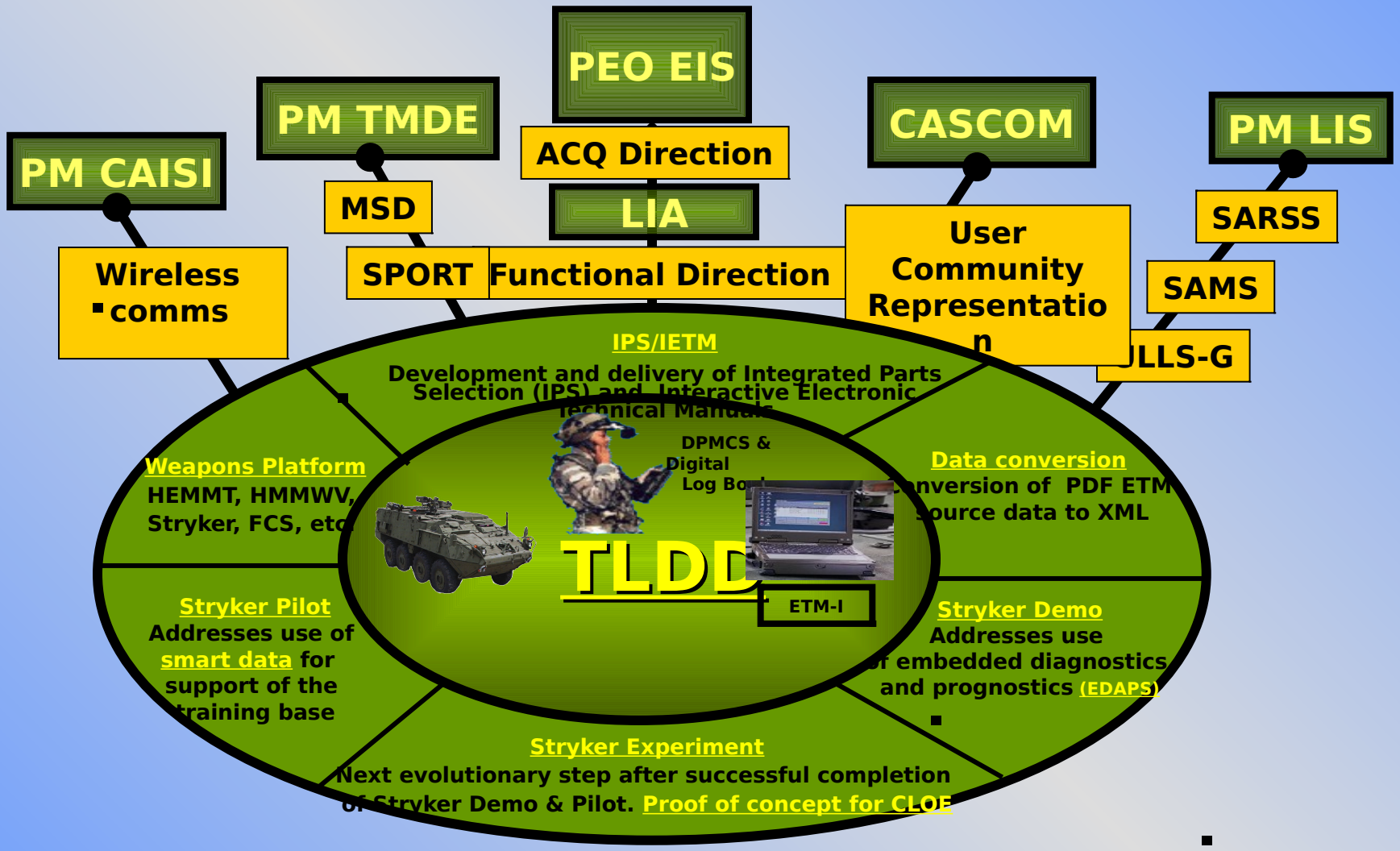
- ETM-I/SAMS-1
  - Provide capability to roll up maintenance data at the battalion and brigade level
  - Create ad hoc reporting capability for supervisors
  - Provide Estimated Cost of Repair/Damage processes which automates inspection routine and classification processes

Materiel Concept

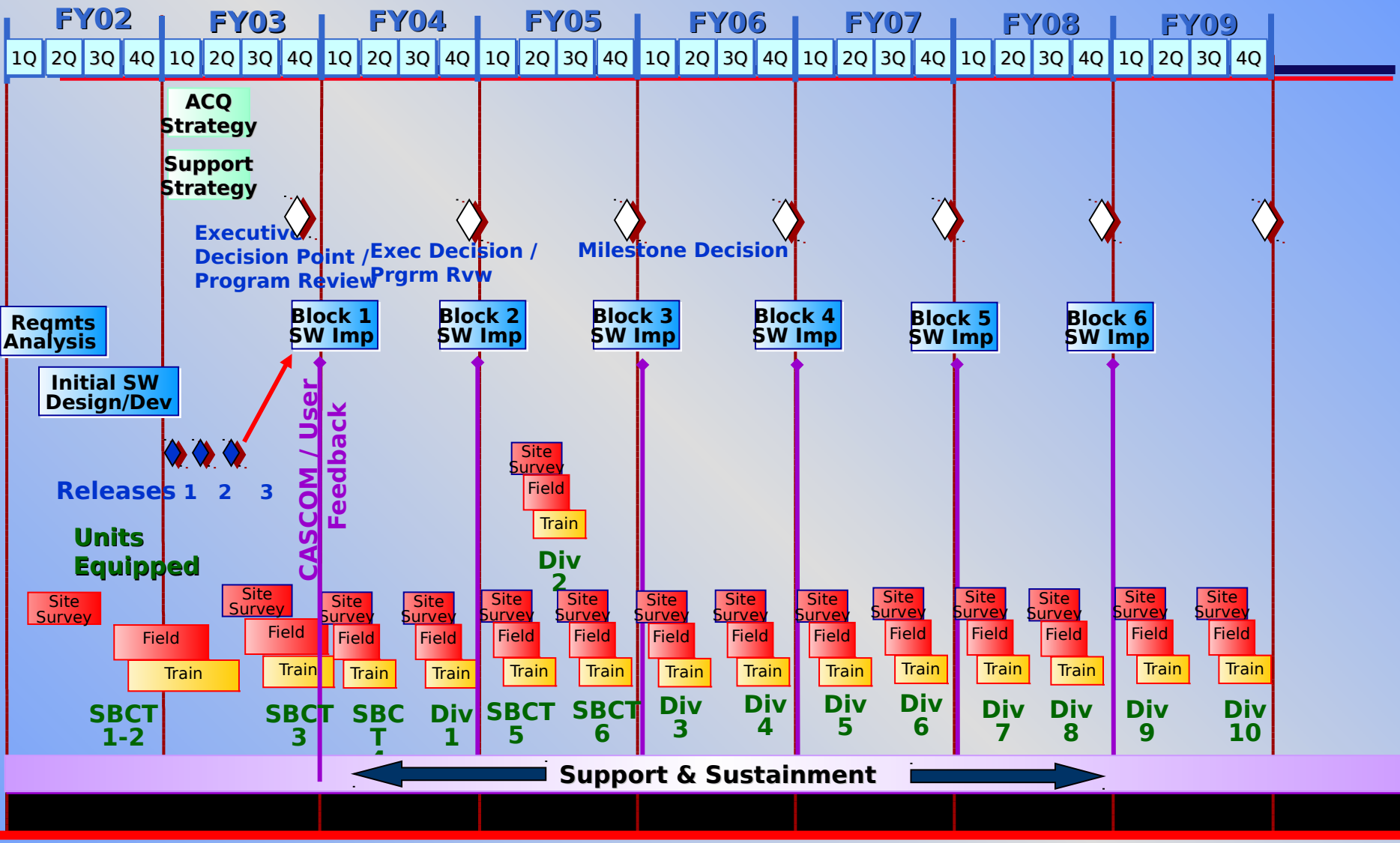


TLDD…The Complete Picture

Integrated Initiatives, Synchronization & Stakeholders



Proposed Project Schedule



GOAL: To fully field, train and <u>sustain</u> the equipment operators, mechanics, supply personnel, and maintenance supervisors of 10 Army Divisions with the full TLDD software and hardware solution by 2009.

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In the Near Future…

- Approved Concept of Operations (CONOPS)
  - Pending CASCOM/TRADOC signatures
- Development of a TLDD Acquisition and Support Strategy
- Coordination with HQDA (G3, G4, G8) for approval of an official fielding schedule
  - Based on USFK/8th Army request for fielding against the proposed project schedule
- Coordination of ETM-I releases with the ULLS and SAMS SCP releases
  - (MOA PM JCALS & PM LIS signed Dec 02)
- Coordination and partnering with PM TMDE
  - (hosting of ETMI and DPMCS applications on MSD/SPORT)

In the Not So Near Future…

- Expand Weapon Systems Using ETM-I & Digital Log Book
  - Aircraft, Wheel Vehicles (FMTV), Support Equipment, Track Vehicles, as well as expansion across the services
- Incorporate A Content Data Management System
  - Populate CDMS with Interactive Electronic Technical Manuals, Updated weapons safety data, Updated Training information
- Redesign of current ETM-I Application to an accredited network application, rewrite using 4th generation programming language and re-architect to Support Integrated Parts Selection (IPS) IETMs
- Integrate / Interface with Existing multiple IETM standards
  - EMS2, IADS, etc…

TACTICAL LOGISTICS DATA DIGITIZATION
TLDD
PEO EIS

Backup Slides

Pilot Synchronization

For security reasons, contents of this slide have been removed. View unabridged version on AKO

Program Does

- Provide applications and infrastructure to support digitized logistics data and extend paperless processes to deployed forces.
- Enable logistics transformation by extending automated interactive technical manual capability to Army tactical forces.
- Purchase PDAs to enable operators to perform Digital Preventive Maintenance Checks and Services (DPMCS).
- Provide Digital Log Book, Digital PMCS and & ETM-I capability to allow maintainers to expediently move repair parts requests, service data updates, and digitized Preventive Maintenance data.
- Develop/Field Integrated Parts Selection (IPS) applications to automate parts ordering processes for deployed forces.
- Provide software to access automated tech manuals and other functions to existing laptops provided by PM GCSS-A/PM TMDE

Program Does Not

- Provide laptops as ETM-Readers, needed to allow maintainers to access IETMs and Repair Parts and Special Tools Lists (RPSTL).

- Convert IETMs from PDF to XML format.